

New claims:

1. A process for preparing polyethylene glycol with a residual content  
5 of less than 30 ppm aldehyde, determined as formaldehyde as specified in  
Ph. Eur. "macrogols" monograph 07/2003:1444, by ethoxylation of  
triethylene glycol in the presence of a basic catalyst, which comprises a  
triethylene glycol which is obtained by distillation from a glycol mixture  
consisting substantially of mono-, di-, triethylene glycol and higher glycols,  
10 at a pressure of from 5 to 10 hPa and a temperature of from 140 to 160°C,  
being employed.

2. The process as claimed in claim 1, wherein the polyethylene glycol  
has a residual content of less than 15 ppm aldehyde.

15 3. The process as claimed in claim 1 or 2, wherein the polyethylene  
glycol has an average molar mass of from 190 to 40 000.

20 4. The process as claimed in claim 1 or 2, wherein the polyethylene  
glycol has an average molar mass of from 190 to 210.

25 5. The process for preparing polyethylene glycol as claimed in one or  
more of claims 1 to 4, by ethoxylation of triethylene glycol in the presence  
of a basic catalyst, wherein a triethylene glycol which is obtained by  
distillation from a glycol mixture consisting substantially of mono-, di-,  
triethylene glycol and higher glycols, at a pressure of 5 hPa and a  
temperature of 140°C, being employed.

30 6. The process as claimed in any of claims 1 to 5, wherein a dried  
alkali metal hydroxide or alkaline earth metal hydroxide being employed as  
basic catalyst.

7. The process as claimed in any of claims 1 to 6, wherein dried  
sodium hydroxide being employed as basic catalyst.

35 8. A product obtainable by a process as claimed in one or more of  
claims 1 to 7.

9. The use of the product as claimed in claim 8 as auxiliary or active ingredient in cosmetic and pharmaceutical preparations.